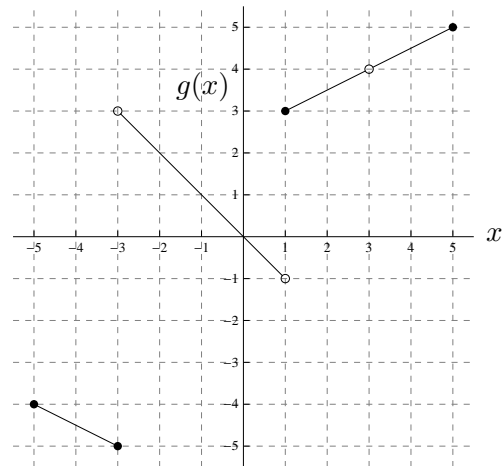


2. [13 points] Below is a table of values for an invertible, differentiable function $f(x)$ and the graph of a function $g(x)$. Use these to answer the following questions:

x	0	1	2	3	4	5
$f(x)$	8	7	3	2	1.5	1



- a. [1 point] Give one number in the interval $[-5, 5]$ that is *not* in the domain of g .
- b. [1 point] Give one number in the interval $[-5, 5]$ that is *not* in the domain of g^{-1} .
- c. [8 points] Evaluate the following:
- $f(f(5))$
 - $g^{-1}(f^{-1}(2))$
 - $\lim_{x \rightarrow 3} g(x)$
 - $g'(1 + f(2))$
- d. [3 points] Approximate $f'(3)$. (Be sure to show your work.)